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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/644,797      | 08/24/2000  | Hisashi Amafuji      | D-990               | 2917             |

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EXAMINER

BELL, PAUL A

|          |              |
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| ART UNIT | PAPER NUMBER |
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2675

DATE MAILED: 04/24/2002

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Please find below and/or attached an Office communication concerning this application or proceeding.

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# Office Action Summary

Application No.  
09/644,797

Applicant(s)  
HISASHI ET AL.

Examiner  
Paul Bell

Art Unit  
2675



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on Aug 24, 2000
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirements.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☒ All b) ☐ Some\* c) ☐ None of:
- ☒ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_
- 18) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other: \_\_\_\_\_

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## DETAILED ACTION

### *Claim Rejections - 35 USC § 112*

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-7 use the word "type" which extends the scope of the expression so as to render it indefinite.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

4. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Yasukawa et al. (5,977,935).

With regard to claim 1 Yasukawa et al. (5,977,935) teaches a body mounting **type** display system, comprising: a display device to be worn by a user (figure 1, item 2); a computer situated

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away from the display device (figure 3, item 3) and outputting a signal corresponding to at least display data (figure 1, item 5 and 6); and a radio transmission device disposed between the display device and the computer (figure 46, items 201 and 202), and including a computer side output transmission circuit connected to the computer (figure 47, item 99) and a body side output transmission circuit (figure 47, item 203) connected to the display device so that the signal at the computer is transmitted to the display device by wireless (figure 47, item 201 and 202).

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yasukawa et al. (5,977,935).

With regard to claim 2 Yasukawa et al. does not directly or explicitly illustrate details such as, “wherein said computer side output transmission circuit includes a first buffer memory to which data corresponding to the signal is written by the computer, a first reading device for reading data stored in the first buffer memory and converting the data to a communication signal, and a first sending device for the communication signal”.

Yasukawa et al. instead illustrates a simple block labeled “Transmission Circuit item 99 in figure 47” connected to his computer. It is well known in the art of “communication

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transmission” for a computer to first write data into a buffer memory in the transmission circuit and when it is ready, it reads it and converts it to a RF signal and then sends it.

Yasukawa et al. also does not directly or explicitly illustrate details such as, “wherein said body side output transmission circuit includes a first receiving device for receiving the communication signal sent from the computer side output transmission circuit, and a first restoring device for restoring the received communication signal to a restored signal corresponding to the signal outputted from the computer”.

Yasukawa et al. instead illustrates a simple block labeled “Transmission Circuit item 203 in figure 47” connected to his display. It is well known in the art of “communication transmission” for the receiver to restore the received communication signal to the signal outputted from the computer because this is inherent and essential for the display to use it properly. Therefore it would of been obvious to one of ordinary skill in the art at the time the invention was made to implement Yasukawa et al. items 99 and 203 as claimed by applicant because such structure and method are conventional and well known in the art of asynchronous communications and to do so would be the most expedient way of doing it.

With regard to claim 3 Yasukawa et al. teaches further comprising an image output interface connected to the first restoring device and the display device for producing a signal for actuating the display device based on the restored signal outputted from the first restoring device (figure 47, item 105).

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With regard to claim 4 Yasukawa et al. was shown above in claims 1-3 to read on most of the limitations of claim 4, with regard to the computer having a bus line such a broadly claimed feature is inherent to the computer illustrated by Yasukawa et al.

*Allowable Subject Matter*

7. Claims 5-7 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2<sup>nd</sup> paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

*Conclusion*

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Bell whose telephone number is (703) 306-3019. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Saras, can be reached at (703) 305-9720.

Any response to this action should be mailed to: Commissioner of Patents and Trademarks  
Washington, D.C. 20231  
or faxed to: (703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist). Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

*Paul Bell*  
Paul Bell  
Art unit 2675  
9 April 2002

*Steven Saras*  
STEVEN SARAS  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600